

# (19) United States

# (12) Patent Application Publication (10) Pub. No.: US 2003/0032479 A1 LeMay et al.

### (43) Pub. Date: Feb. 13, 2003

### (54) VIRTUAL CAMERAS AND 3-D GAMING **ENVIROMENTS IN A GAMING MACHINE**

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Appl. No.: 09/927,901

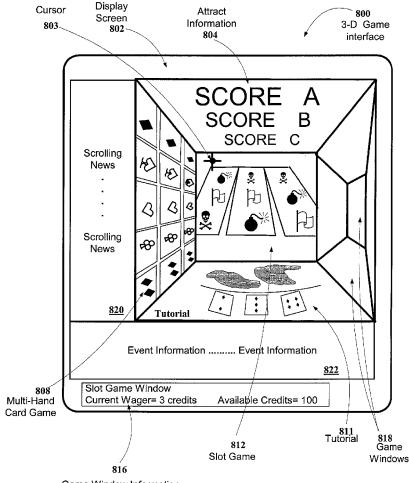
(22) Filed: Aug. 9, 2001

#### **Publication Classification**

(51)	Int. Cl. <sup>7</sup>	
(52)	U.S. Cl.	463/32

#### (57)**ABSTRACT**

A disclosed gaming machine provides method and apparatus for presenting a plurality of game outcome presentations derived from one or more virtual 3-D gaming environments stored on the gaming machine. While a game of chance is being played on the gaming machine, two-dimensional images derived from a three-dimensional object in the 3-D gaming environment may be rendered to a display screen on the gaming machine in real-time as part of the game outcome presentation. To add excitement to the game, a 3-D position of the 3-D object and other features of the 3-D gaming environment may be controlled by a game player. Nearly an unlimited variety of virtual objects, such as slot reels, gaming machines and casinos, may be modeled in the 3-D gaming environment.



Game Window Information